

UNITED STATES DEPARTMENT OF COMMERCE Pat nt and Trademark Offic

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ı	APPLICATION NO.	FILING DATE		DINVENTOR	_ 1.4	ATTORNEY DOCKET NO.
	U87837,459	04/18/9/	MUREE		I.I.	4775,0023
Γ	- FINNEGAN HE DUNNER	ENDERSON FAR	HM32/0929 ABOW GARRETT &	7	FORTNER	
	1300 I STRE WASHINGTON	EET NW DC 20005-33	15		ART UNIT	PAPER NUMBER
				DATE	MAILED:	09/29/98

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



UNITED STA S DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Weshington, D.C. 20231

FILING DATE

FIRST NAMED APPLICANT

ATTORNEY DOCKET NO.

	EXAMINER					
r	ART UNIT	PAPER NUMBER				
		10				

DATE MAILED:

This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS

OFFICE ACTION SUMMARY							
Responsive to communication(s) filed	1 on 8-19-98	·					
☐ This action is FINAL.							
Since this application is in condition for accordance with the practice under E	or allowance except for formal matters, prosecuti ex parte Quayle, 1935 D.C. 11; 453 O.G. 213.	lon as to the merits is closed in					
whichever is longer, from the mailing date	e to this action is set to expire 3 e of this communication. Failure to respond with 35 U.S.C. § 133). Extensions of time may be obta	month(s), or thirty days, in the period for response will cause					
Disposition of Claims		•					
Claim(s)	1-50	is/are pending in the application.					
Of the above, claim(s)	1-27 + 33-50	is/are)withdrawn from consideration.					
☐ Claim(s)	<u> </u>	is/are allowed.					
X Claim(s)	1-27 + 33-50	is/n rejected.					
☐ Claim(s)		is/are objected to.					
Claims	are su	ubject to restriction or election requirement.					
Application Papers							
See the attached Notice of Draftspo	erson's Patent Drawing Review, PTO-948.						
☐ The drawing(s) filed on is/are objected to by the Examiner.							
☐ The proposed drawing correction, f	filed on	isapproved disapproved.					
☐ The specification is objected to by the Examiner.							
☐ The oath or declaration is objected	i to by the Examiner.						
Priority under 35 U.S.C. § 119							
•	n for foreign priority under 35 U.S.C. § 119(a)-(d)).					
□ All □ Some* □ None of the CERTIFIED copies of the priority documents have been							
received.							
received in Application No. (Series Code/Serial Number)							
received in this national stage application from the International Bureau (PCT Rule 17.2(a)).							
*Certified copies not received:							
•	n for domestic priority under 35 U.S.C. § 119(e).						
Attachment(s)							
X Notice of Reference Cited, PTO-89	· ·						
Information Disclosure Statement(s), PTO-1449, Paper No(s).							
☐ Interview Summary, PTO-413							
Notice of Draftsperson's Patent Dr	rawing Review, PTO-948						
Alatina of Informal Retent Application	_						

~ SEE OFFICE ACTION ON THE FOLLOWING PAGES -

Art Unit: 1641

DETAILED ACTION

Claims 1-50 are pending, claims 28-32 are under consideration..

Election/Restriction

1. Claims 1-27 and 33-50 are withdrawn from further consideration by the examiner, 37

CFR 1.142(b) as being drawn to a non-elected. Election was made without traverse in Paper

No.9.

2. Applicant's election without traverse of Group VII in Paper No. 9 is acknowledged.

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently

named inventors is no longer an inventor of at least one claim remaining in the application. Any

amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the

fee required under 37 CFR 1.17(I).

4. The restriction requirement made in paper number 7 is deemed proper and is therefore

made FINAL.

Information Disclosure Statement

5. The information disclosure statement submitted has been made of record and considered prior

to first action.

Art Unit: 1641

Claim Objections

6. Claim 29 is objected to because of the following informalities: claim 29 recites an abbreviation, the meaning of which has not been defined in the claims, the recitation of abbreviations in the claims is permissible once the meaning of the abbreviation has been defined in the claims. Appropriate correction is requested.

Claim Rejections - 35 U.S.C. § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

Claims 28-31 were read in light of the specification definition of anti-intimin antibodies on page 14, paragraph 3, wherein the anti-intimin antibodies are defined to be compositions of antibodies to intimin, a portion of intimin or an intimin-like protein from pathogenic or non-pathogenic bacteria, which also encompasses antibodies to invasin.

Art Unit: 1641

8. Claims 28-29, 31 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by .

Louie et al (1993).

Louie et al disclose a composition comprising antibodies which are polyclonal, wherein the antisera was treated with lysates of uninduced E. coli to remove nonspecific antibodies directed to other E. coli components, wherein the antibodies were prepared against intimin from E.coli 0157 and show that the antibodies induced by the immunogen reacted with the surface exposed 97 kDa intimin (see figure 2,page 4088; preparation of antisera, page 4086, col. 2, third paragraph).

9. Claims 28 and 31 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by McKee, (May 1995).

McKee disclose polyclonal antibodies induced to a fusion protein encoded by E.coli eaeA gene, wherein the antibodies are directed against a fragment of the whole intimin protein which comprised 900 amino acids. Therefore, the composition disclosed comprised antibodies against intimin and was free of other antibodies specific for an intimin expressing host bacteria and clearly anticipates the instantly claimed invention.

10. Claims 28 and 31 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by McKee, Marian Little (1995, Dissertation Abstracts).

McKee disclose polyclonal antibodies induced to an affinity purified fusion protein encoded by E.coli eaeA gene. Therefore, the composition disclosed comprised antibodies against intimin and was free of other antibodies specific for an intimin expressing host bacteria and clearly anticipates the instantly claimed invention.

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Art Unit: 1641

11. Claims 28-31 are rejected under 35 U.S.C. 102(b) as being anticipated by deAzavedo (CA2078716, March 22, 1994).

deAzavedo et al disclose and claim polyclonal and monoclonal antibodies to enterhemorrhagic E.coli attaching and effacing protein(intimin) and would therefore anticipate compositions comprising antibodies which comprise antibodies to intimin which are free of other antibodies for an intimin expressing host bacteria as a monoclonal antibodies are specific to a single epitope for an antigen, wherein the composition would also be free of other antibodies which are specific to EHEC. As claim 32 is a product by process claim, the antibodies of deAzavedo would also anticipate this claim, as the monoclonal antibodies of deAzavedo would have characteristics of an affinity purified antibody composition specific a single epitope which could be immobilized to a solid support to obtain a composition comprising antibodies to that epitope. Therefore, deAzavedo anticipates the instantly claimed compositions as now claimed.

12. Claims 28, 29, 30 and 31 are rejected under 35 U.S.C. 102(e) as being anticipated by Acheson et al (US Pat. 5,800,821).

Acheson et al disclose a monoclonal antibody invasin, designated 3A2-1(see description of drawings, Figure 3, column 4) and would therefore anticipate compositions comprising antibodies which comprise antibodies to invasin which are free of other antibodies for an invasin expressing host bacteria as a monoclonal antibodies are specific to a single epitope for an antigen, wherein the composition would also be free of other antibodies which are specific to EHEC. As claim 32 is a product by process claim, the antibodies of Acheson et al would also anticipate this claim, as

Art Unit: 1641

the monoclonal antibodies of Acheson et al would have characteristics of an affinity purified antibody composition specific a single epitope which could be immobilized to a solid support to obtain a composition comprising antibodies to that epitope. Therefore, Acheson et al anticipates the instantly claimed compositions as now claimed.

13. Claims 28-32 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Dougan et al (US Pat. 5,747,293).

Dougan et al disclose both polyclonal and monoclonal antibodies to intimin-like proteins of E.coli, wherein the monoclonal antibodies recognize particular epitopes of the intimin protein of enterhemorrhagic and enteropathogenic E.coli and would therefore anticipate compositions comprising antibodies which comprise antibodies to intimin which are free of other antibodies for an intimin expressing host bacteria as a monoclonal antibodies are specific to a single epitope for an antigen, wherein the composition would also be free of other antibodies which are specific to EHEC. As claim 32 is a product by process claim, the antibodies of Dougan et al would also anticipate this claim, as the monoclonal antibodies of Dougan et al would have characteristics of an affinity purified antibody composition specific a single epitope which could be immobilized to a solid support to obtain a composition comprising antibodies to that epitope (see entire patent). Therefore, Dougan et al anticipates the instantly claimed compositions as now claimed.

14. Claims 28-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Leong et al (1990).

Application/Control Number: 08/837,459

Art Unit: 1641

Leong et al disclose 32 monoclonal antibodies to invasin of Yersinia pseudotuberculosis,

wherein the 6 monocloanl antibodies were to the C-terminal region and blocked adhesin and the

other were to other epitopes not encompassed by the 192 amino acids of the C-terminal region and

would therefore anticipate compositions comprising antibodies which are free of other antibodies

for an intimin expressing host bacteria as a monoclonal antibodies are specific to a single epitope

for an antigen, wherein the composition would also be free of other antibodies which are specific

to EHEC. As claim 32 is a product by process claim, the antibodies of Leong et al would also

anticipate this claim, as the monoclonal antibodies of Leong et al would have characteristics of an

affinity purified antibody composition specific a single epitope which could be immobilized to a

solid support to obtain a composition comprising antibodies to that epitope. Therefore, Leong

et al anticipates the instantly claimed compositions as now claimed.

Conclusion

15. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

16. Amkraut et al (US Pat. 5,702,727) is cited to show compositions comprising antibodies and

invasin for the treatment of a host against infection.

17. Ladd et al (US Pat. 5,759,551) is cited to show the use of an invasin domain as an effective

immune enhancer (column 3, lines 30-38).

18. Tarr et al (Us Pat. 5,798,260) is cited to show epithelial adhesin of E.coli O157:H7.

Page 7

Page 8 Application/Control Number: 08/837,459

Art Unit: 1641

19.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ginny Portner whose telephone number is (703)308-7543. The examiner can normally be reached on Monday through Friday from 7:30 AM to 5:00 PM except for the first friday of each two week period.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel, can be reached on (703) 308-4027. The fax phone number for this group is (703) 308-4242.

The Group and/or Art Unit location of your application in the PTO will be changing February 7, 1998. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art 1641.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

September 18, 1998